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Antimicrobial agent for plants esp. lawn grass - contains solvent extracts of plants, e.g. magnolia or salvia, natural additive e.g. chitosan and food additives e.g. alginic acid or sucrose fatty acid ester(s)

Patent Assignee: NAKANO SUMESE KK (NAKA-N)

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Patent Family:

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JP 4316506	A	19921106	JP 91106370	A	19910412	199251 B
JP 3121036	B2	20001225	JP 91106370	A	19910412	200102

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JP 4316506 A 30 A01N-065/00

JP 3121036 B2 26 A01N-037/02 Previous Publ. patent JP 4316506

Abstract (Basic): JP 4316506 A

Antimicrobial agents are composed of one or more (a) one or more pressed juice, aq. and/or organic solvent extract or their condensates of Phellodendron amurense, Hosta undulata, Magnolia obovata, Aspidistra elatior, Scutellaria baicalensis, Rheum officinale, Symphytum officinale, Polygonum blumei, Celosia sp., Fragaria ananassa, bamboo, Rhus javanica, rose, nym, Thea sinensis, Castanea sp., Cinnamomum cassia, Stzygium aromaticum, Salvia officinalis, Peperomia sandersii and Humulus lupulus, (b) one or more natural additives of persimmon tannin, CaO, saponin, fumigating soln., naringin, hesperidin, leaf extract of Eucalyptus, benzoin resin, betaine, pectin degradation prod., soft roe protein, Monascus pigment, chitosan and polylysine, and (c) one or more food additives of lecithins, ferric lactate, tartaric acid, nicotinamide, alginic acid, fumaric acid, disodium 5'-guanylate, disodium orotate, sodium polyphosphate, sucrose fatty acid esters, thiamine laurylsulphate, thiamine thiocyanate, L-ascorbic acid, pyridoxine HCl, methylhesperidine, folic acid, sodium riboflavin 5'-phosphate, ferrous gluconate, ferric pyrophosphate, sodium benzoate, potassium sorbate, erythorbic acid, propylene glycol alginate, sodium metaphosphate, MgCl₂, choline phosphate, glycine, L-alanine, adipic acid, vanillin, piperonal, sodium phytate, sorbitan monolaurate, tannic acid, gallic acid, propylene glycol, ethanol, lysozyme and sorbic acid, and a compsn. contg. acetic acid.

Pref. an acetic acid compsn. and one or more components (a), (b) and (c), pref. Magnolia obovata, Thea sinensis, Salvia officinalis, Syzygium aromaticum, Cinnamomum cassia, Humulus lupulus, ferric lactate and piperonal are mixed at ratios of 1:0.25-4 pts.wt. The resultant compsn. is diluted to give 0.002-0.2 wt.% of acetic acid and dispersed every five to 20 days.

USE/ADVANTAGE -- Safe agricultural compsns. against harmful microorganisms, partic. fungi, without chemical injury.

In an example, a compsn. with various ratios of (a), (b), (c) and acetic acid was effective against fungi (e.g. Botrytis cinerea IFO 31831, Cladosporium carpophilum IFO 9645, Cl. fulvum IFO 8419, Fusarium oxysporum IFO 7152, Pythium aphanidermatum IFO 7030, Rhizoctonia

solani IFO 30464, Sclerotinia sclerotiorum IFO 4876 and Valsa
ceratosperma IFO 30252 at concns. of 0.1-1.0 w/v%.

(Dwg.0/0)

Derwent Class: C03; C05

International Patent Class (Main): A01N-037/02; A01N-065/00

International Patent Class (Additional): A01N-031/02; A01N-033/12;

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